



## Author Index

Abuin, E.B. 155

Aly, H.F. 105

Anton, R. 225

Avramov, M.Z. 203

B.Nagy, J. 233

Berg, J.C. 139

Brach, M. 73

Breton, M. 83

Bruque, J.M. 93

Campos, A.M. 155

Chang, C.-H. 1

Chen, J. 255, 267

Churaev, N.V. 131

Defives, D. 173

Dickinson, E. 255, 267

El-Absy, M.A. 105

El-Naggar, I.M. 105

Enders, S.E. 207

Fonseca, A. 233

Fouillac, C. 73

Frances, E.I. 1

Friberg, S.E. 83

González-Martín, M.L. 93

Graciaa, A. 217, 225

Guéveliou, Y. 173

Jańczuk, B. 93

Joos, P. 245

Kamiti, M. 177

Lachaise, J. 217, 225

Lecourtier, J. 173

Li, G.-Z. 165

Lissi, E.A. 155

Mackay, R.A. 83

Marquez, N. 225

Miller, R. 207

Mihana-Perez, M. 217

Monnoyer, Ph. 233

Mukhopadhyay, P. 47

Noik, Ch. 173

Oliver, J. 83

Pauwels, H. 73

Raih, M. 105

Ren, X.-Z. 165

Román-Galán, E. 93

Salager, J.L. 217, 225

Schreiber, H.P. 47

Seebergh, J.E. 139

Toshev, B.V. 203

Van Uffelen, M. 245

Vollhardt, D. 187

van de Ven, T.G.M. 117

Wang, H.-L. 165

Weidemann, G. 187

Wüstneck, R. 207

Xu, X.-H. 165

Young, T. 83

Zorin, Z.M. 131



## Subject Index

Acid-base interactions, 47  
Adsorbed monolayer, 245  
Adsorption, 73, 173  
Adsorption dynamics, adsorption-rate limited, 1  
Adsorption dynamics, diffusion-controlled, 1  
Adsorption dynamics, mixed-kinetic, 1  
Adsorption dynamics, surfactants, 1  
Adsorption equilibria, 1  
Adsorption isotherms, 207  
Adsorption kinetics, 245  
Aggregation number, 165  
*N*-Alkyl betaine, 165  
Aluminium(III) hydroxide, 73  
Anionic surfactant, 255, 267  
Aqueous surfactant solutions, 131

Branched alkanol, 155

Calcium carbonate, 117  
Capillary suction, 131  
Cassiterite-SDS solution, 93  
Cation exchange, 105  
Characterization, 105  
Charcoal impregnated with tin(IV) oxide, 105  
Colloidal AgBr particles, 233  
Condensed phases, 187  
Critical micelle concentration, 165

Deposition, 117  
Detergents, 83  
Dimyristoylphosphatidylethanolamine, 187  
Dipalmitoylphosphatidylcholine, 155, 187  
Dissolution, 117  
Double layers, 93  
Dynamic surface tension, data, 1  
Dynamic surface tension, methods of measurement, 1  
Dynamic surface tension, models, 1

Electrokinetics of latexes, 139  
Electrophoretic mobility, 267  
Error propagation, 207

Evaporation, 83  
Extended surfactants, 217

Flavor, 83  
Flocculation, 255  
Fragrance, 83  
Free energy of interaction, 93  
Frumkin isotherm, 1

Gelatin, 255, 267  
Geothermal water, 73

Hairy layer model, 139  
Heat treatment of latexes, 139  
Hydrodynamic size of latexes, 139

Interactions, 255, 267  
Inverse gas chromatography, 47

Kaolinite, 173

Lactoglobulin, 255, 267  
Langmuir-Hinshelwood kinetics, 1  
Langmuir isotherm, 1  
Large unilamellar vesicles, 155  
Line tension, 203  
Linear alkanols, 155  
Liquid crystals, 83  
Lithium, 73  
Long-range tilt orientational order, 187

Microemulsions, 82, 225, 233  
Modified Langmuir-Hinshelwood kinetics, 1

Nitrate media, 105

Partitoning, 225  
Phase diagrams, 83  
Phospholipid monolayers, 187  
Polar oils, 217  
Polyacrylamides, 173  
Polyelectrolyte adsorption, 117

Polymer bridging, 117  
Polymer latexes, 139  
Pyrene, 165  
Pyrene-3-carboxyaldehyde, 165  
pH, 173

Sand, 173  
Separation, 105  
Solubilization, 217  
Surface diffusion, 131

Surface dilatation, 245  
Surface tension, 83, 207  
Surfactants, 225

Thin hydrophobized capillaries, 131

van der Waals fluid, 203

Water treatment, 73

Zeta potential, 267



## Contents of Volume 100

<i>Editorial</i> .....	v
<b>Reviews</b>	
Adsorption dynamics of surfactants at the air/water interface: a critical review of mathematical models, data, and mechanisms C.-H. Chang and E.I. Franses (West Lafayette, IN, USA) .....	1
Aspects of acid-base interactions and the use of inverse gas chromatography P. Mukhopadhyay and H.P. Schreiber (Montreal, Quel., Canada) .....	47
Study of $\text{Li}^+$ adsorption onto polymeric aluminium(III) hydroxide for application in the treatment of geothermal waters H. Pauwels, M. Brach and C. Fouillac (Orleans, France) .....	73
Evaporation from a microemulsion in the water-aerosol OT-cyclohexanone system S.E. Friberg, T. Young and R.A. Mackay (Potsdam, NY, USA), J. Oliver and M. Breton (Mississauga, Ont., Canada) .....	83
The contribution of double layers to the free energy of interactions in the cassiterite-SDS solution system B. Jańczuk, J.M. Bruque, M.L. González-Martín and E. Román-Galán (Badajoz, Spain) .....	93
Cation exchange properties of charcoal impregnated with tin(IV) oxide from nitrate media M.A. El-Absy, I.M. El-Naggar, M. Raieh and H.F. Aly (Cairo, Egypt) .....	105
Impinging jet studies of the kinetics of deposition and dissolution of calcium carbonate particles M. Kamiti and T.G.M. van de Ven (Montreal, Que., Canada) .....	117
Penetration of aqueous surfactant solutions into thin hydrophobized capillaries N.V. Churaev and Z.M. Zorin (Moscow, Russia) .....	131
Evidence of a hairy layer at the surface of polystyrene latex particles J.E. Seebergh and J.C. Berg (Seattle, WA, USA) .....	139
Effect of a linear (1-octanol) and a branched (2,6-dimethyl-4-heptanol) alkanol upon the properties of dipalmitoylphosphatidylcholine large unilamellar vesicles A.M. Campos, E.B. Abuin and E.A. Lissi (Santiago, Chile) .....	155
Study of betaine solutions by fluorescent probes of pyrene-3-carboxaldehyde X.-Z. Ren and G.-Z. Li (Jinan, People's Republic of China), H.-L. Wang (Lanzuo, People's Republic of China) and X.-H. Xu (Jinan, People's Republic of China) .....	165
Polyacrylamide adsorption onto dissolving minerals at basic pH Y. Guévelou, Ch. Nöik, J. Lecourtier and D. Defives (Rueil Malmaison, France) .....	173
Long range tilt orientational order in phospholipid monolayers: a comparison of the order in the condensed phases of dimyristoylphosphatidylethanolamine and dipalmitoylphosphatidylcholine G. Weidemann and D. Vollhardt (Berlin, Germany) .....	187
Van der Waals attraction forces and line tension B.V. Toshev and M.Z. Avramov (Sofia, Bulgaria) .....	203
On the error propagation of experimental surface tension values to parameters of adsorption isotherms R. Wüstneck, P. Enders and R. Miller (Berlin, Germany) .....	207
Solubilization of polar oils with extended surfactants M. Miñana-Perez and A. Graciaa (Mérida, Venezuela), J. Lachaise (Pau, France) and J.L. Salager (Mérida, Venezuela) .....	217
Partitioning of ethoxylated alkylphenol surfactants in micromulsion-oil-water systems N. Marquez and R. Anton (Mérida, Venezuela), A. Graciaa and J. Lachaise (Pau, France) and J.L. Salager (Merida, Venezuela) .....	225

Preparation of colloidal AgBr particles from microemulsions Ph. Monnoyer, A. Fonseca and J.B. Nagy (Namur, Belgium) .....	233
Adsorption kinetics with surface dilatation. 5. transient surface tensions of an adsorbed monolayer during compression with a constant dilatation rate P. Joos and M. Van Uffelen (Wilrijk, Belgium) .....	245
Protein/surfactant interfacial interactions. Part 1. Flocculation of emulsions containing mixed protein + surfactant J. Chen and E. Dickinson (Leeds, UK) .....	255
Protein/surfactant interfacial interactions. Part 2. Electrophoretic mobility of mixed protein + surfactant systems J. Chen and E. Dickinson (Leeds, UK) .....	267
<i>Author Index</i> .....	279
<i>Subject Index</i> .....	280
<i>Contents of Volume 100</i> .....	282